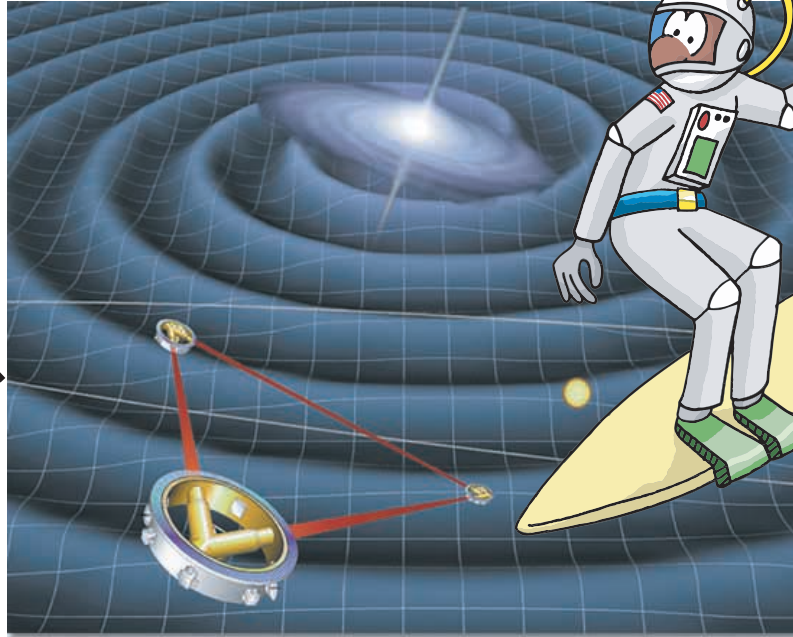


# The Space Place New Millennium Calendar



<http://spaceplace.nasa.gov>

The LISA mission will observe gravitational waves from huge events in space. What are gravitational waves? Find out at The Space Place. [http://spaceplace.nasa.gov/lisa\\_fact2.htm](http://spaceplace.nasa.gov/lisa_fact2.htm)

## DECEMBER 2003

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>Safe Toy Month.</b> Have fun with two safe toys on The Space Place: build a "Newtonian Physics Machine" or make a pop rocket.	1	2	<b>Galileo improves the telescope and turns it toward the sky, 1621.</b> Learn about Jupiter, one of the first objects Galileo observed with his telescope.	4	5	<b>Percy Spencer invents the microwave oven, 1945.</b> Find out how wave behavior can help us find planets around distant stars.
<b>Launch in 1966 of Applications Technology Satellite 1</b> (first weather sensor in space on geostationary satellite). Check out Earth weather images for the classroom.	FULL MOON 8	<b>Astronauts aboard the space shuttle complete repairs to the Hubble Space Telescope, 1993.</b> See how good is the amazing Hubble Space Telescope.	<b>Albert Einstein receives Nobel Prize for Physics, 1921.</b> What remarkable ideas did Einstein have? Find out on The Space Place.	<b>First recorded sighting of the Aurora Borealis</b> took place in New England, 1719. Go to The Space Place and find out what causes them.	<b>Inventor Guglielmo Marconi receives radio signals from across the ocean, 1901.</b> Find out about today's amazing antennas.	13
14	15	LAST QUARTER 16	17	18	<b>Apollo 17, the last of the Apollo Moon landing missions, returns to Earth, 1972.</b> Check out images of the Moon and Apollo program.	20
<b>Geminid Meteor Shower</b>	21	NEW MOON 22	23	24	25	26
<b>Arthur Wynne creates first crossword puzzle, 1919.</b> Check out the MISR crossword.	<b>Winter solstice</b> (first day of winter)	<b>Astronauts Borman, Lovell &amp; Anders are first to orbit the Moon, 1968.</b> Find out how orbits work by shooting a cannonball into orbit!			<b>Time Magazine names Albert Einstein as Person of the Century, 1999.</b> Play the LISA gravitational wave game and find out more about Einstein.	27
28	29	FIRST QUARTER 30	31			
		<b>National Bicarbonate Day.</b> Did you know you can use this stuff for rocket fuel?				

Month of December: <http://spaceplace.nasa.gov/funphysics.htm>  
<http://spaceplace.nasa.gov/rocket.htm>

Dec. 3: <http://spaceplace.nasa.gov/phonedrmarc/nov2001.html>

Dec. 4: [http://spaceplace.nasa.gov/national\\_partners.htm](http://spaceplace.nasa.gov/national_partners.htm)

Dec. 6: [http://spaceplace.nasa.gov/teachers/keck\\_waves.pdf](http://spaceplace.nasa.gov/teachers/keck_waves.pdf)

Dec. 7: [http://spaceplace.nasa.gov/teachers\\_earth\\_weather\\_images.htm](http://spaceplace.nasa.gov/teachers_earth_weather_images.htm)

Dec. 9: [http://spaceplace.nasa.gov/wfpc\\_fact1.htm](http://spaceplace.nasa.gov/wfpc_fact1.htm)

Dec. 10: [http://spaceplace.nasa.gov/lisa\\_fact2.htm](http://spaceplace.nasa.gov/lisa_fact2.htm)

Dec. 11: [http://spaceplace.nasa.gov/teachers/st5\\_magnetism.pdf](http://spaceplace.nasa.gov/teachers/st5_magnetism.pdf)

Dec. 12: [http://spaceplace.nasa.gov/teachers/dsn\\_signal\\_mod\\_web.pdf](http://spaceplace.nasa.gov/teachers/dsn_signal_mod_web.pdf)

Dec. 19: <http://spaceplace.nasa.gov/phonedrmarc/aug2002.html>

Dec. 21: [http://spaceplace.nasa.gov/misr\\_xword/misr\\_xword1.htm](http://spaceplace.nasa.gov/misr_xword/misr_xword1.htm)

Dec. 23: <http://spaceplace.nasa.gov/orbits1.htm>

Dec. 26: [http://spaceplace.nasa.gov/teachers/lisa\\_game.pdf](http://spaceplace.nasa.gov/teachers/lisa_game.pdf)

Dec. 30: <http://spaceplace.nasa.gov/rocket.htm>